

Title (en)
AN IMPROVED MEDICAL SYSTEM COMPRISING IMPLANTS

Title (de)
VERBESSERTES MEDIZINISCHES SYSTEM MIT IMPLANTATEN

Title (fr)
SYSTÈME MÉDICAL IMPLANTÉ COMPRENANT DES IMPLANTS

Publication
EP 2453981 B1 20201028 (EN)

Application
EP 10800121 A 20100719

Priority
• SE 2010050859 W 20100719
• SE 0901002 A 20090717
• US 21380509 P 20090717

Abstract (en)
[origin: WO2011008165A1] A medical system (100, 300) comprises internal parts (30, 32) for implantation in a patient and external parts (10, 12, 20). The external parts comprise an energy source (10) with a primary coil (12) and the internal parts comprise an electrically powered medical device (40, 41) and an energy receiver (30) with a secondary coil (32) for inductively receiving energy from the external energy source(10). The system (100, 300) is arranged to determine a balance between the energy received in the energy receiver (30) and the amount of energy used by the medical device (40, 41). The internal control unit (50) transmits feedback information to the external control unit (20), and the system (100, 300) is arranged to determine the feedback information based on a first (P1) and a second (P2) parameter.

IPC 8 full level
A61N 1/378 (2006.01); **A61F 2/02** (2006.01); **H02J 5/00** (2016.01); **H02J 50/10** (2016.01); **H02J 50/80** (2016.01); **A61N 1/372** (2006.01); **H02J 7/00** (2006.01); **H02J 7/02** (2016.01)

CPC (source: EP US)
A61N 1/3787 (2013.01 - EP US); **H02J 50/10** (2016.02 - EP US); **H02J 50/80** (2016.02 - EP US); **H02J 2310/23** (2020.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011008165 A1 20110120; AU 2010271514 A1 20120301; CA 2805339 A1 20110120; CA 2805339 C 20201222; CA 3010361 A1 20110120; CA 3010361 C 20230110; CA 3101163 A1 20110120; EP 2453981 A1 20120523; EP 2453981 A4 20121219; EP 2453981 B1 20201028; EP 3851160 A1 20210721; US 10843002 B2 20201124; US 2012112556 A1 20120510; US 2017266453 A1 20170921; US 2018236246 A1 20180823; US 9610455 B2 20170404; US 9950181 B2 20180424

DOCDB simple family (application)
SE 2010050859 W 20100719; AU 2010271514 A 20100719; CA 2805339 A 20100719; CA 3010361 A 20100719; CA 3101163 A 20100719; EP 10800121 A 20100719; EP 20204124 A 20100719; US 201013384387 A 20100719; US 201715478123 A 20170403; US 201815959465 A 20180423